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ATTORNEY DOCKET NO. FIRST NAMED INVENTOR FILING DATE APPLICATION NO. 015200-054 Н 09/011,977 AMMON 06/15/98 **EXAMINER** Г HM22/0712 021839 OWENS JR, H MATHIS L L P BURNS DOANE SWECKER & PAPER NUMBER ART UNIT POST OFFICE BOX 1404 ALEXANDRIA VA 22313-1404 1623 DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

07/12/01

Application No. 09/011,977 Applicant(s)

Office Action Summary

Examiner

Art Unit

1623

Ammon et al.



	Howard Owens	1623	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address			
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed			
after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).			
 Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 			
Status 1) \square Responsive to communication(s) filed on <u>Apr 18, 2</u>	2001		·
2a) ☑ This action is FINAL . 2b) ☐ This ac	tion is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.			
Disposition of Claims			
4) 💢 Claim(s) <u>10, 12-22, 24, 25, and 27</u>	is/ar	e pending in the	application.
4a) Of the above, claim(s)	is/a	re withdrawn fr	om consideration.
5) Claim(s)		is/are allowed.	
6) X Claim(s) 10, 12-22, 24, 25, and 27		is/are rejected.	
7) Claim(s)			
8) Claims are subject to restriction and/or election requirement.			
Application Papers			
9) The specification is objected to by the Examiner.			
10) The drawing(s) filed on is/are objected to by the Examiner.			
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved.			
12) The oath or declaration is objected to by the Examiner.			
Priority under 35 U.S.C. § 119 13) ☐ Acknowledgement is made of a claim for foreign part and all b) ☐ Some* c) ☐ None of:	priority under 35 U.S.C. § 119(a)-(d).	
1. Certified copies of the priority documents have been received.			
2. Certified copies of the priority documents have been received in Application No.			
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).			
*See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).			
14) Acknowledgement is made of a claim for domestic priority under 35 0.3.6. 3 113(6).			
Attachment(s)			
15) Notice of References Cited (PTO-892)	18) Interview Summary (PTO-413) Paper No(s).		
16) Notice of Draftsperson's Patent Drawing Review (PTO-948)			
17) Information Disclosure Statement(s) (PTO-1449) Paper No(s).	201 00000		

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Response to Arguments

The following is in response to the amendment filed 4/18/01:

An action on the merits of claims 10, 12-22, 24 and 25 is contained herein below.

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35 U.S.C. 112

112(1)

The rejection of claims 10 and 12-16 under 35 U.S.C. 112(1) has been overcome through applicant's amendment.

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112(2)

The rejection of claims 10 and 12-22 and 24-25 under 35 U.S.C. 112(2) is withdrawn in view of applicant's arguments.

20 **35 U.S.C. 103**

The rejection of claims 10, 12-22, 24-25 and newly added 27 under 35 U.S.C. 103 is maintained for the reasons of record.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 10, 12-22 and 24-25 and 27 are rejected under 35 U.S.C. 103 over Ammon et al., EP 0552657 in combination with Mulshine et al., WO 95/24894 and Han, Chin. Med. Sci. J., vol. 9(1), 61-69.

The instant claims are drawn to a method of combating diseases selected from the group consisting of chronic bronchitis, glomerulonephritis, rheumatoid arthritis, cystic fibrosis, tumors and neoplasms or tumor metastases which are caused by increased leukocytic elastase or plasmin activity.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Ammon et al. teach the use of Boswellic acids for the prophylaxis and or control of inflammatory processes that are caused by elevated leucotriene formation and that they inhibit the 5-lipoxygenases. Ammon et al. teach the use of Boswellic acid in the treatment of inflammatory conditions of the joints (rheumatism), bronchitis, chronic hepatitis and chronic asthma (pp. 1-6). However, Ammon does not teach the he use of Boswellic acid as an anti-tumor or anticancer agent. Mulshine et al. teaches the efficacy of 5-lipoxygenase inhibitors in the treatment of cancer, which adequately bridges the nexus between the differences in the prior art and the invention as claimed with regard to the use of Boswellic acids to treat tumors; moreover, Han further supports the usefulness of Boswellic acid derivatives in the treatment of cancer (see abstract).

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It would have been <u>prima facie</u> obvious to a person of ordinary skill in the art at the time the invention was made to use Boswellic acid or a derivative thereof to treat inflammatory processes or neoplasms.

One of skill in the art would have been motivated to use Boswellic acid or plant extracts (such as olibanum) containing Boswellic acid to treat inflammation or neoplasms as the prior art teaches the anti-inflammatory and anticancer activity associated with the use of these compounds. Applicant's connection of Boswellic acid to leukocytic elastase or plasmin activity is considered to be a discovery of one of the pathways affected by Boswellic acid and does not obviate the use of the Boswellic acid in the prior art to treat or combat inflammatory conditions, neoplasms or cancer; moreover, as the prior art has taught the efficacy of 5 lipoxygenase inhibitors in the treatment of cancer or tumors and Boswellic acid has been established in the art as a member of the class of lipoxygenase inhibitors one of skill in the art would have been provided with a reasonable expectation of success in the use of these compounds to treat cancer.

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This is a Continuing Prosecution Application of applicant's earlier Application No. 09/245,505. All claims are drawn to the same invention claimed in the earlier application and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the earlier application. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action in this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Howard Owens whose telephone number is (703) 306-4538. The examiner can normally be reached on Mon.-Fri. from 8:30 a.m. to 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the Primary Examiner signing this action, Gary Geist can be reached on (703) 308-4624. The fax phone number for this Group is (703) 308-4556.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-1235.

GARY GEIST SUPERVISORY PATENT EXAMINER TECH CENTER 1600